TABLE 5-1 FLOOD HAZARD INFORMATION and FLOOD LOADS		
FLOOD HAZARD AREA		
Base Flood Elevation _____	MSL	NGVD or FIRM
Design Flood Elevation _____	MSL	IBC 1612.3 and ASCE 24
NON HIGH-VELOCITY WAVE ACTION		
Elevation of Lowest Proposed Floor	MSL	Meet ASCE 24 Section 2.6.2.1
Dry Floodproofing ☐ no ☐yes	per ASCE 24	
HIGH-VELOCITY WAVE ACTION		
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor _____ MSL		
Flotation resistant☐ no ☐yes	per ASCE 24	
Breakaway wall ☐ no ☐yes	per ASCE 24	

IBC 1612 and SE-900, as applicable

ZONING CERTIFICATION
"I hereby certify that, to the best of my knowledge, these plans comply with applicable zoning ordinances, and that plans have been submitted to appropriate authority for their review and/or approval."
Signed: _____ Architect/Engineer _____ Date

If the project does not require a National Pollution Discharge Elimination System (NPDES) permit from SCDHEC, include the following certification on the Site Plan(s):

EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT
Designer's Certification: "I hereby certify that the measures in this plan are designed to control erosion, retain sediment on the site, and manage stormwater in a manner that neither any on-site nor off-site damage or problem is caused or increased, that all structural measures are designed to the minimum standards for health and safety, and that all the provisions of the plan are in compliance with the Regulations contained in Chapter 72, Article 2, SC Code of Regulations (Erosion and Sediment Reduction and Stormwater Management Regulations)."
Signed: _____ _____ Engineer or Registered Landscape Architect (Circle one) Date

TABLE 5-2 SOILS & SITE		
SOILS INVESTIGATION (If available)	☐ no ☐yes	per IBC 1802.2
SOILS CLASSIFICATION		
Site Class (seismic class)	____	per IBC 1613.5.2
Classes Soil of Materials (UCS System)	____	per IBC 1802.3
Allowable Footing Bearing Pressure	____ psf	
MINIMUM DESIGN SOIL BEARING LOAD	____ psf	per IBC table 1804.2.1
COMPACTION		
Subgrade _____ Percent	□ASTM D698 □ASTM D1557 □AASHTO (only for paving & roads)	
Base _____ Percent	□ASTM D698 □ASTM D1557 □AASHTO(only for paving & roads)	
Other _____ Percent	□ASTM D698 □ASTM D1557 □AASHTO(only for paving & roads)	
MINIMUM DESIGN SOIL LATERAL LOAD	____ psf	per IBC 1610.1
FOOTINGS		
Undisturbed footings	☐ no ☐yes	
Compacted Fill Material	☐ no ☐yes	per IBC 1803.5
ELEVATIONS		
Elevation of Water Table	____ MSL	
Elevation of lowest footing	____ MSL	
Elevation of lowest floor or basement	____ MSL	

NOTE: Where a fire wall is necessary to separate buildings, each building is to be provided individual code criteria tables 5-3 through 5-14. See IBC 503.1.2.

TABLE 5-3 BASIC BUILDING CODE INFORMATION			
CONSTRUCTION CLASSIFICATION	Type_____ (IBC 602)		
OCCUPANCY GROUP (indicate all) (Note IBC 506.4.1)	_____ (IBC 302)		
OCCUPANCY GROUP (indicate most restrictive)	_____ (IBC Table 503)		
Does building require Incidental Use Area Separation?	☐ no ☐yes	(IBC 508.2.2)	
Does building have Accessory Occupancy (ies)? What percent of story is accessory occupancy?	☐ no ☐yes	(IBC 508.3.1)	_____ SF _____ %
Mixed Occupancy	☐ no ☐yes	(IBC 508.3)	
Non separated	☐ no ☐yes	(IBC 508.3.2)	
Separated	☐ no ☐yes	(IBC 508.3.3) (IBC506.4.1)	
OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke- evacuation/control/compartments. Note IBC §414.1.3.)			

TABLE 5-4 BUILDING AREA	
AREA LIMIT BY TABLE 503 OF IBC (Do not indicate increases for sprinklers & street frontage.)	_____ SF (area limitation per story)
AREA MODIFICATION FROM EQUATION 5-1 OF IBC (Insert equation from IBC 506.1 with completed calculations in this box) (Equation 5-1) Aa = At + [At x If] + [At x Is] Aa = Allowable area per floor (square feet). At = Tabular area per floor in accordance with Table 503 If = Area increase factor due to frontage (percent) as calculated in accordance with Section 506.2. Is = Area increase due to sprinkler protection as calculated in accordance with Section 506.3. (Repeat equation for each story of differing occupancies, IBC 506.4.1) Note: footnote "e." from table 601	_____ SF (maximum modified area per story)
	_____ SF (maximum area per story)
Total Allowed Area of Building (summary of all stories)	_____ SF
AREA AS DESIGNED PER STORY (Repeat for each story)	_____ SF (area per story)
Total Designed Area of Building	_____ SF

TABLE 5-5 BUILDING HEIGHT				
	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
Without any Allowable Increase (per IBC Table 503)				
Allowable Height Increase (per IBC 504.2)				
Total Height including any Allowable Increase				

TABLE 5-6 BUILDING DESIGN OCCUPANT LOAD					
		A	B	C	D
Stories & Levels	Function of Space1	Floor Area2 (specify NSF or GSF)	Max Area allowed /Occupant3 (specify NSF or GSF)	Persons on floor for this Function4	Design Occupant Load
-	(1)	(2)	(3)	(4)	
	(Add additional rows as needed for each Function Type on this story)				
	Subtotal Design Occupant Load for This Story				(5)
-	(1)	(2)	(3)	(4)	
	(Add additional rows as needed for each Function Type on this story)				
	Subtotal Design Occupant Load for This Story				(5)
-	(1)	(2)	(3)	(4)	
	(Add additional rows as needed for each Function Type on this story)				
	Subtotal Design Occupant Load for This Story				(5)
Add or delete rows as needed for each story & level of building (including mezzanine)					
Total Building Design Occupant Load					(6)

Footnotes:
1 Provide the complete name of the Function of space using the left column of Table 1004.1.1 of the IBC.
2. Design Area per each occupant of this function on this floor in either Gross or Net square footage
3. Allowed Floor Areas in SF per Occupant per right column in Table 1004.1.1 of the IBC
4. Divide Column A (2) by Column B (3) for each function and enter the result, rounded up to the nearest whole person (4)
5 Subtotal all Column C values for this floor to yield the Design Occupant Load, (5)
6. Total Building Design Occupant Load –sum of all Column D value (6)

TABLE 5-7 GENERAL FIRE PROTECTION REQUIREMENTS		
SEPERATIONS		
Fireblocking Required	☐ no ☐yes	per IBC Section 717
Draftstopping Required	☐ no ☐yes	per IBC Section 717
Smoke Control System Required	☐ no ☐yes	per IBC Section 909
Smoke Barriers Required	☐ no ☐yes	per IBC Sections 407 and 408
Smoke Partitions Required	☐ no ☐yes	per IBC Sections 407
Fire Partition Required	☐ no ☐yes	per IBC Section 419
Fire Barrier Required	☐ no ☐yes	per IBC Section 706
ALARM & DETECTION		
Fire Alarm System Required	☐ no ☐yes	per IFC Section 907
Emergency Alarm System Required	☐ no ☐yes	per IFC 908
SUPPRESSION		
Standpipes Required	☐ no ☐yes	per IFC Section 905
Sprinklers Required	☐ no ☐yes	per IFC Section 903
Sprinklers Provided	☐ no ☐yes	
Portable extinguishers required	☐ no ☐yes	per IFC 906
Other suppression systems required	☐ no ☐yes	per IFC 904
Smoke & heat vents required	☐ no ☐yes	per IFC 910
Other: *(Indicate other provided fire and life safety features not listed above, if any)*		

TABLE 5-8 FIRE RESISTANCE RATING OF BUILDING ELEMENTS				
BUILDING ELEMENT	Rating As Required (in hours)	Rating As Designed (in hours)	Testing Agency & Design No. (UL, FM, etc)	Designers Wall/Partition Key Code
Structural Frame (per IBC Table 601)				
Bearing Walls Exterior Interior (per IBC Table 601)				
Nonbearing Walls & Partitions Exterior Interior (per IBC Table 601 & 602)				
Floor Construction including supporting beams & joists (per IBC Table 601)				
Roof Construction including supporting beams & joists (per IBC Table 601)				
Fire Walls (per IBC Section 705)				
Fire Barriers (per IBC Section 706)				
Shaft Enclosures (per IBC Section 707)				
Fire Partitions (per IBC Section 708)				
Opening & Protective Listing by Category (fire shutters, doors, etc. per IBC Section 715)				
Others as required by Designer)				

TABLE 5-9 STRUCTURAL DESIGN INFORMATION				
OCCUPANCY CATEGORY(IES)			*IBC Table 1604.5*	
LIVE LOADS				
Floor Live Load	F_{ll} =	PSF	*List the F_{ll} for each occupancy*	
Roof Live Load	R_{ll} =	PSF		
Ground Snow Load	p_g =	PSF	*IBC (Figure 1608.2)*	
WIND LOADS				
Analysis Procedure _____			*ASCE 7*	
Basic Wind Speed	V_{3S} =_____	MPH	*3 sec gust IBC Fig 1609*	
Exposure Category	_____			
Wind Importance Factor		I_w =_____	*ASCE 7(Table 6.1)*	
Internal Pressure Coefficient		GC_{pi} =____	*ASCE 7*	
External Pressure Coefficient		GC_p =_____	*ASCE 7*	
SEISMIC LOADS				
Seismic Importance Factor		I =____	*ASCE 7*	
Soil Class	____		*IBC 1613.5.2*	
Mapped Spectral Response Accelerations			S_s =____	S_1=____
Design Spectral Response Acceleration Parameters			S_{DS} =____	S_{D1} =____
Seismic Use Group	_____		*ASCE 7 (Seismic Occupancy Category IBC)*	
Seismic Design Category	_____		*IBC Tables 1613.5.6(1) & 1613.5.6(2)*	
Basic Seismic Force Resisting System		_____		
Design Base Shear		_____ KIPS		
Seismic Response Coefficient(s)		C_s =____		*ASCE 7*
Response Modification Factor(s)		R =____		*ASCE 7*
Analysis Procedure	_____			
ARCHITECTURAL-MECHANICAL-ETC. LOADS			*Provide as applicable: architectural items, mechanical, plumbing, etc. per ASCE 7*	
SPECIAL LOADS			*Provide as applicable: abnormal items, moving loads, impact, hoisting, etc. per ASCE)*	

**per IBC Chapter 16 and ASCE 7 -- Information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.*

Table 5-10 PLUMBING INFORMATION				
WATER SYSTEM				
Service Line Size	Inches			
Peak	GPM			
Total Demand	No. Fixture Units			
SANITARY SEWER SYSTEM				
Loading	GPD			
Service Line Size	Inches			
Slope	min inches/ft			
MINIMUM PLUMBING FIXTURES REQUIRED/PROVIDED			per IPC Section 403 & Table 403.1	
	Male-Required	Male-Provided	Female-Required	Female-Provided
Water Closets				
Lavatories				
Urinals*				
OTHER FIXTURES	Required	Provided	per IPC Section 403 & Table 403.1	
Drinking Fountains				
Unisex toilet				
Service Sink				
Others (list) _____				

* Urinals – See IPC 419.2

Where mixed Occupancies occur within buildings, expand this table to indicate Occupant loads for each

The minimum required toilet fixtures are calculated for the total Design Occupant Load indicated in Table 5-6

TABLE 5-12 MECHANICAL INFORMATION			
AIR COMFORT SYSTEMS Overall Thermal Transfer Value (OTTV): _____ Building Heating Load _____ SF / Ton Building Cooling Load _____ BTU / SF			
OTHER LOADING FEATURES Glass	U Factor _____	Window to wall ratio _____	
Insulation Values	Roof _____	Exterior Walls _____	
Outside Air minimum while occupied	_____ CFM	_____ Occupants	
MECHANCIAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT Briefly describe mechanical system:			

(The above data shall be considered a minimum and any special attribute required to meet the mechanical codes.)

TABLE 5-13 ELECTRICAL INFORMATION			
SERVICE TRANSFORMER	☐ By Utility Co.	☐ By Agency(if by Agency) _____KVA Primary _____Voltage/Phase	
ELECTRICALSERVICE INFORMATION Service Voltage/Phase	_____ Amperes		
Service Entrance Conductors Size	_____ Quantity per Phase		
Total Connected Load Estimated Maximum Demand	_____ KVA _____ KVA		
Available Fault Current in Symmetrical Amperes	_____		
Interrupting Capacity of Service Overcurrent Device	_____		
GROUNDING ELECTRODE SYSTEM COMPONENTS: _____ (NEC 250)			
EMERGENCY SERVICE INFORMATION EmergencyGenerator ☐ No ☐ Yes	_____ KVA	Voltage/Phase_____	_____ Fuel
Exit/Emergency Lights Backup Power		☐ Integral Battery	☐ Generator
Fire Alarm System ☐ Manual	☐ Automatic	☐ Addressable	☐ Class A ☐ Class B
LIGHTNING PROTECTION PROVIDED	☐ No	☐ Yes	
COMMUNICATIONS COORDINATED ☐ Not Required	Contact Chief Information Office for applicability (803) 898-8172 ☐ Yes		

TABLE 5-14 DESIGN-RELATED CONSTRUCTION PERMITS/APPROVALS The following list is not all-inclusive of every, permit and standards applicable to each project. Agencies and A/Es must delete non-applicable listings and add others for each specific project.			
Type of Development	SC Law or Reg.	Where to Obtain Permit/Approval	Status
Air pollutant discharge	48-1-100, R61-62.1	SCDHEC - Air Quality Control	
Ambulatory surgical facilities	R61-91	SCDHEC - Health Facilities Construction	
Asbestos abatement	R61-86.1	SCDHEC - Air Quality Control	
Building construction, Zoning	6-7-830, 6-9-110	Local Authority	
Community residential care facilities	R61-84	SCDHEC - Health Facilities Construction	
Construction in critical coastal areas	48-39-10, 130, 190	SCDHEC - Ocean & Coastal Res. Mgmnt.	
Construction in navigable waters	49-1-16	SCDHEC - Water Pollution Control	
Dams and reservoirs	49-11-200, R72-1, 2, 3	SCDHEC - Water Pollution Control	
Demolition of Real Property	R61-86.1	SCDHEC - Air Quality Control	
Design Review Board (BARs, SC Dept Archives & History, etc.)	Various local	Various local	
Educational facilities (K through 12)	59-23-40	SC Department of Education – Office of District Facilities Management	
Elevators	14-16-90	SC Department of Labor, Licensing & Regulation	
Fire Department (Local)	Various local & State	Servicing Fire Department	
Fire Protection Sprinkler	23-45	State Fire Marshal	
Fire suppression systems	R19-300.7	State Fire Marshal	
Floodplains, construction in	Exec. Order 82-19	Office of State Engineer	
Food service establishments	R61-25	SCDHEC – Local County Health Dept.	
Historical building rehabilitation	R12-125, 126	Archives and History, Local Authority	
Hospitals & infirmaries	R61-16	SCDHEC – Health Facilities Construction	

TABLE 5-14 DESIGN-RELATED CONSTRUCTION PERMITS/APPROVALS The following list is not all-inclusive of every, permit and standards applicable to each project. Agencies and A/Es must delete non-applicable listings and add others for each specific project.			
Type of Development	SC Law or Reg.	Where to Obtain Permit/Approval	Status
Road encroachment, local	57-7-60	Local City or County Authority	
Road encroachment, state	57-5-1080	Local SCDOT Maintenance Office	
Sanitary sewer; treatment & disposal	R61-56, 57	SCDHEC – Domestic Wastewater	
Storm water discharge, erosion and sediment control	R61-9; R72-100-108	SCDHEC – Water Pollution Control; State Engineer; Local Authority	
Swimming areas, natural public	R61-50	SCDHEC – Water Supply Construction	
Swimming pools, public	R61-51	SCDHEC – Water Supply Construction	
Underground storage tanks	R61-92	SCDHEC – Groundwater Protection	
Waste discharge (sewage, industrial waste, etc.)	48-1-100, 110, R61-9	SCDHEC – Water Pollution Control	
Water supply	44-55-40, R61-57, 58	SCDHEC – Water Supply Construction	
Wells, Underground injection	R61-71, 87	SCDHEC – Groundwater Protection	
Zoning(Municipal, County or District)	Various		

For completion of this Table in the Bid Documents Stage it must indicate the status of each permit by insertion of "approved" and date in the status column. If not approved, indicate pending approval, phased approval and who (A/E, Agency, Contractor or Other) is to provide that documentation and anticipated date.

TABLE 5-15 STATEMENT OF SPECIAL INSPECTIONS

Project Name:

Project Number:

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 of the 2006 International Building Code. Any deviations from the requirements of Section 1704 must be approved by OSE.

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY

(Insert in Project Manual)